

ABSTRACT OF THE DISCLOSURE

An electrical connector adapted for mounting to an electrical apparatus used in either high pressure or high temperature, or both high temperature and high pressure, applications. A metal body is provided for mounting to the electrical apparatus with at least one conductor for carrying electricity to or from the electrical apparatus extending therethrough and a thermoplastic jacket is applied over the conductors to the end of the metal body that is subjected to either high pressure or high temperature, or both high temperature and high pressure, for sealing around the conductor. An insulative material is interposed between the metal body and the conductor for sealing around the conductor. In addition to providing two independent internal and two independent external seals, the glass-to-metal seal limits cold-flow (creep) of thermoplastic along the pin and through the metal body. This feature effectively eliminates the catastrophic hydraulic failures possible with prior connectors utilizing a pin, metal body, and high temperature thermoplastic. Because of the redundant internal and external seals, the connector provides undistorted electrical performance in the most hostile environments of temperature and pressure.